



Carney, Jonathan W <jonathan.w.carney@wv.gov>

RE: [EXT] The Chemours Company FC, LLC - Chemours Belle Plant

1 message

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com>
To: "Carney, Jonathan W" <jonathan.w.carney@wv.gov>
Cc: "Rine, Ashley B" <ASHLEY.B.DELANCY-RINE@chemours.com>

Mon, May 23, 2022 at 10:35 AM

Johnathan,

Neither one of the those pieces of equipment have opening to the atmosphere, so they do not have any emission that could trigger the R13 permitting requirements. Also, I do not see any R13 records for either of those pieces of equipment.

Michelle L. Young, MS, CHMM

Senior Environmental Competency Leader - RC14001 Leader

On-Site Office Hours:

Mondays 7-3:30

Wednesdays 7-3:30

+1 304 357 1319 **o**+1 304 542 6697 **m****The Chemours Company**

901 W. DuPont Avenue

Belle, WV 25015

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From: Carney, Jonathan W <jonathan.w.carney@wv.gov>**Sent:** Friday, May 20, 2022 3:34 PM

To: Young, Michelle L <MICHELLE.L.YOUNG@chemours.com>
Cc: Rine, Ashley B <ASHLEY.B.DELANCY-RINE@chemours.com>
Subject: [EXT] The Chemours Company FC, LLC - Chemours Belle Plant

External email. Confirm links and attachments before opening.

Hello Michelle,

The year installed changed for DMS 003 Heat Exchanger from 1987 to 2011. The year installed changed for DMS014 Separator from 1978 to 2013. Did each of these units have permit determinations that they did not need to be permitted through Rule 13 New Source Review permitting? Please explain why these units do not need a Rule 13 permit.

Sincerely

Jonathan Carney

--

Jonathan Carney, P.E.

Environmental Protection

NSR/Title V Air Permitting

(304) 926-0499 ext 41247

Jonathan.W.Carney@wv.gov

[601 57th St SE](#)

[Charleston, WV 25304](#)

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<https://www.chemours.com/en/email-disclaimer>



Carney, Jonathan W <jonathan.w.carney@wv.gov>

RE: [EXT] Chemours - Belle Title V Renewal Application questions

1 message

Young, Michelle L <MICHELLE.L.YOUNG@chemours.com>
To: "Carney, Jonathan W" <jonathan.w.carney@wv.gov>
Cc: "Rine, Ashley B" <ASHLEY.B.DELANCY-RINE@chemours.com>

Wed, May 18, 2022 at 7:17 AM

Johnathan,

DME027 should be removed. It is a carbon filter that was removed from service.

For the changes to PTE, the renewal application we submitted in 2016 included methylamines and Methyamides. On January 1, 2020, those units were sold to Belle Chemical company and the permit was split and part of it issued to them. So the 2021 PTEs no longer include the methylamines and Methyamides emissions.

For the control devices, there are no new ones.

COFLARE, DMSCD01, DMSCD02, DMSCD03 and DMSCD04 are all in the current permit and have been since we first received Title V.

Please let me know if you have any other questions. Feel free to give me a call if you think that would easier.

Thanks,

Michelle L. Young, MS, CHMM

Senior Environmental Competency Leader - RC14001 Leader

On-Site Office Hours:

Mondays 7-3:30

Wednesdays 7-3:30

+1 304 357 1319 o

+1 304 542 6697 m

The Chemours Company

901 W. DuPont Avenue

Belle, WV 25015



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From: Carney, Jonathan W <jonathan.w.carney@wv.gov>
Sent: Tuesday, May 17, 2022 3:36 PM
To: Young, Michelle L <MICHELLE.L.YOUNG@chemours.com>
Cc: Rine, Ashley B <ASHLEY.B.DELANCY-RINE@chemours.com>
Subject: [EXT] Chemours - Belle Title V Renewal Application questions

You don't often get email from jonathan.w.carney@wv.gov. [Learn why this is important](#)

External email. Confirm links and attachments before opening.

Hello Ms. Young,

I am currently reviewing your renewal application and I need a few clarifications.

Please explain the changes in Potential To Emit for CO, NOx, PM2.5, PM10, TSP, SOs, VOC, Methanol, Dimethyl Sulfate, and Total HAPs.

DME027 is not listed in the application. Did you want it removed from the permit? If so, please, explain why it is being removed.

Are you requesting new emission units to be included in the permit? It appears you have listed new air pollution control devices. Have these new devices been included in any R13 permits.

Sincerely,

Jonathan Carney

--

Jonathan Carney, P.E.

Environmental Protection

NSR/Title V Air Permitting

(304) 926-0499 ext 41247

Jonathan.W.Carney@wv.gov

[601 57th St SE](#)

[Charleston, WV 25304](#)

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The Chemours Company FC, LLC
901 W. DuPont Ave.
Belle, WV 25015-1555

Received
August 12, 2021
WV DEP/Div of Air Quality

Director
Division of Air Quality
WV Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304

RE: DuPont Belle Plant Title V Permit Renewal Application
R30-03900001 Group 5 of 5

Dear Director,

Please find enclosed the confidential renewal application materials for R30-03900001 Group 5 of 5. Chemours' non-confidential and redacted parts of the application were emailed.

If there are any questions on comments, please contact me at (304) 357-1498.

Sincerely,

A handwritten signature in black ink that reads 'Michelle L. Young'. The script is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Michelle L. Young, MS, CHMM
Sr. Environmental Competency Leader



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL
PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

Received
August 12, 2021
WV DEP/Div of Air Quality

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): The Chemours Company FC, LLC		2. Facility Name or Location: Chemours Belle Plant	
3. DAQ Plant ID No.: 0 3 9 — 0 0 0 0 1		4. Federal Employer ID No. (FEIN): 911077773	
5. Permit Application Type: <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial/Renewal Permit Application When did operations commence? Before 1970 What is the expiration date of the existing permit? 2/13/2022			
6. Type of Business Entity: <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Governmental Agency <input type="checkbox"/> Limited Partnership <input checked="" type="checkbox"/> LLC		7. Is the Applicant the: <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both If the Applicant is not both the owner and operator, please provide the name and address of the other party. _____ _____ _____	
8. Number of onsite employees: 250			
9. Governmental Code: <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> District government owned and operated; 5			
10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.			

11. Mailing Address		
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	State: WV	Zip: 25015-
Telephone Number: (304) 357-1000	Fax Number: () -	

12. Facility Location		
Street: 901 W DuPont Avenue	City: Belle	County: Kanawha
UTM Easting: 451.90 km	UTM Northing: 4232.60 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: US Route 60 exit, Right onto Dupont Avenue, left at plant gate entrance		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, for what air pollutants?	
Is facility located within 50 miles of another state? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, name the affected state(s).	
Is facility located within 100 km of a Class I Area ¹ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, name the area(s).	
If no, do emissions impact a Class I Area ¹ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

13. Contact Information		
Responsible Official: Ashley B. Rine		Title: Plant Manager
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	State: WV	Zip: 25015-
Telephone Number: (304) 357-1200	Fax Number: () -	
E-mail address: Ashley.B.Delancy-Rine@chemours.com		
Environmental Contact: Michelle Young		Title: Sr. Env Competency Leader
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	State: WV	Zip: 25015-
Telephone Number: (304) 357-1319	Fax Number: () -	
E-mail address: Michelle.L.Young@chemours.com		
Application Preparer: Michelle Young		Title: Sr. Env Competency Leader
Company: Chemours		
Street or P.O. Box: 901 W DuPont Avenue		
City: Belle	State: WV	Zip: 25015-
Telephone Number: (304) 357-1319	Fax Number: () -	
E-mail address: Michelle.L.Young@chemours.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Chemicals	VAZO, Glycolic Acid, dimethyl ether, dimethyl sulfate	325199	2869

Provide a general description of operations.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR34)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS	<input checked="" type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input checked="" type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input checked="" type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input checked="" type="checkbox"/> 45CSR27 State enforceable only rule
<input type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

Page of

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☐ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

see current permit

☐ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

see current permit

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

see current permit

☐ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

see current permit

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

21. Active Permits/Consent Orders

[illegible]

22. Inactive Permits/Obsolete Permit Conditions

[illegible]

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions (tpy)
Carbon Monoxide (CO)	1.0
Nitrogen Oxides (NO _x)	1.7
Lead (Pb)	0.0001
Particulate Matter (PM _{2.5}) ¹	0.011
Particulate Matter (PM ₁₀) ¹	0.071
Total Particulate Matter (TSP)	0.082
Sulfur Dioxide (SO ₂)	0.01
Volatile Organic Compounds (VOC)	462.0
Hazardous Air Pollutants ²	Potential Emissions (tpy)
Methanol	4.0
Dimethyl Sulfate	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions

¹PM_{2.5} and PM₁₀ are components of TSP.

²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input checked="" type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input checked="" type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____ _____ _____ _____ _____

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input checked="" type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input checked="" type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input checked="" type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the Title V Equipment Table and provide it as ATTACHMENT D .
26. Emission Units
For each emission unit listed in the Title V Equipment Table , fill out and provide an Emission Unit Form as ATTACHMENT E .
For each emission unit not in compliance with an applicable requirement, fill out a Schedule of Compliance Form as ATTACHMENT F . – N/A
27. Control Devices
For each control device listed in the Title V Equipment Table , fill out and provide an Air Pollution Control Device Form as ATTACHMENT G .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the Compliance Assurance Monitoring (CAM) Form(s) for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as ATTACHMENT H . – N/A

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

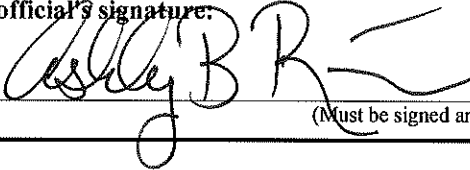
Responsible official (type or print)

Name: Ashley B. Rine

Title: Site Manager

Received
August 12, 2021
WV DEP/Div of Air Quality

Responsible official's signature:

Signature: 

Signature Date: 8/11/2021

(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:

☒ ATTACHMENT A: Area Map

☒ ATTACHMENT B: Plot Plan(s)

☒ ATTACHMENT C: Process Flow Diagram(s)

☒ ATTACHMENT D: Equipment Table

☒ ATTACHMENT E: Emission Unit Form(s)

☐ ATTACHMENT F: Schedule of Compliance Form(s)

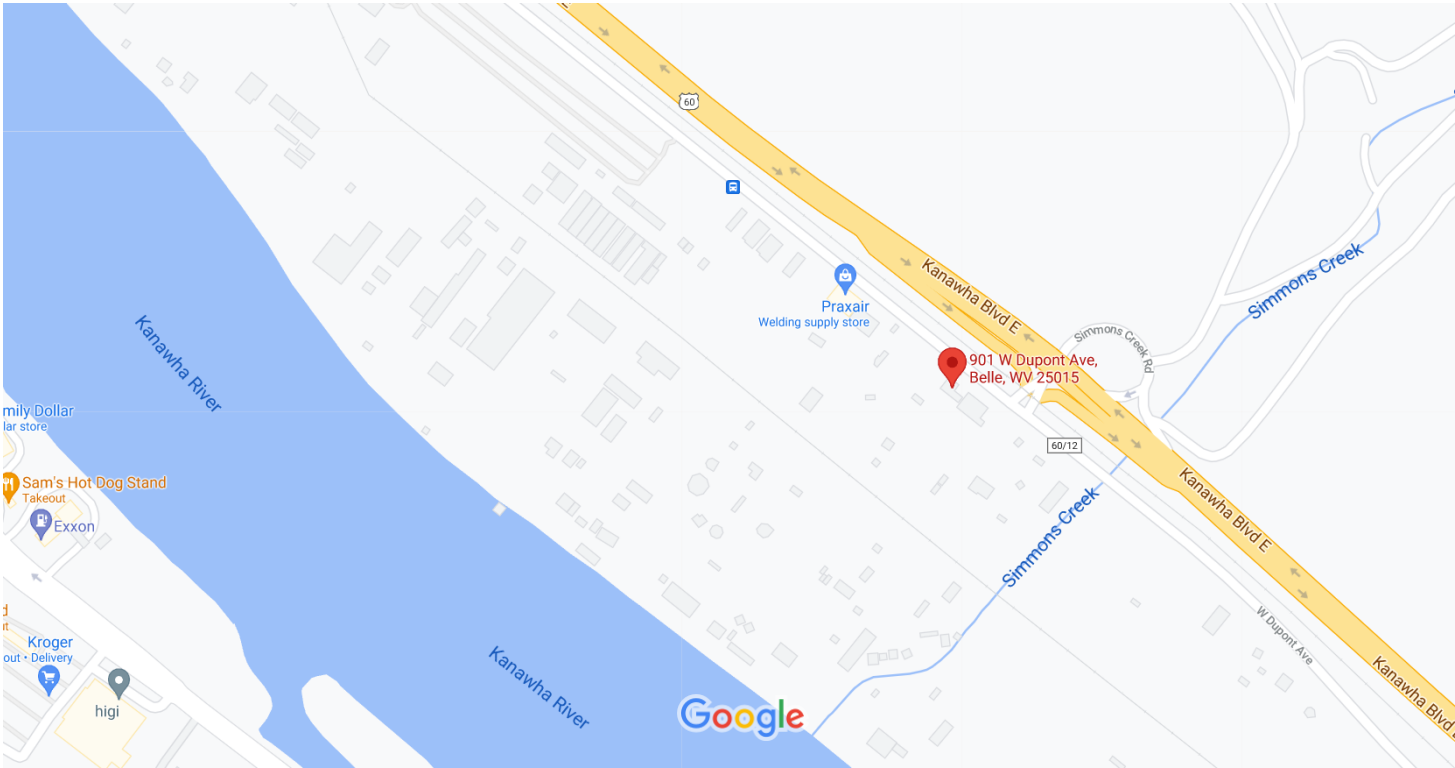
☒ ATTACHMENT G: Air Pollution Control Device Form(s)

☐ ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

Google Maps

901 W Dupont Ave



901 W Dupont Ave

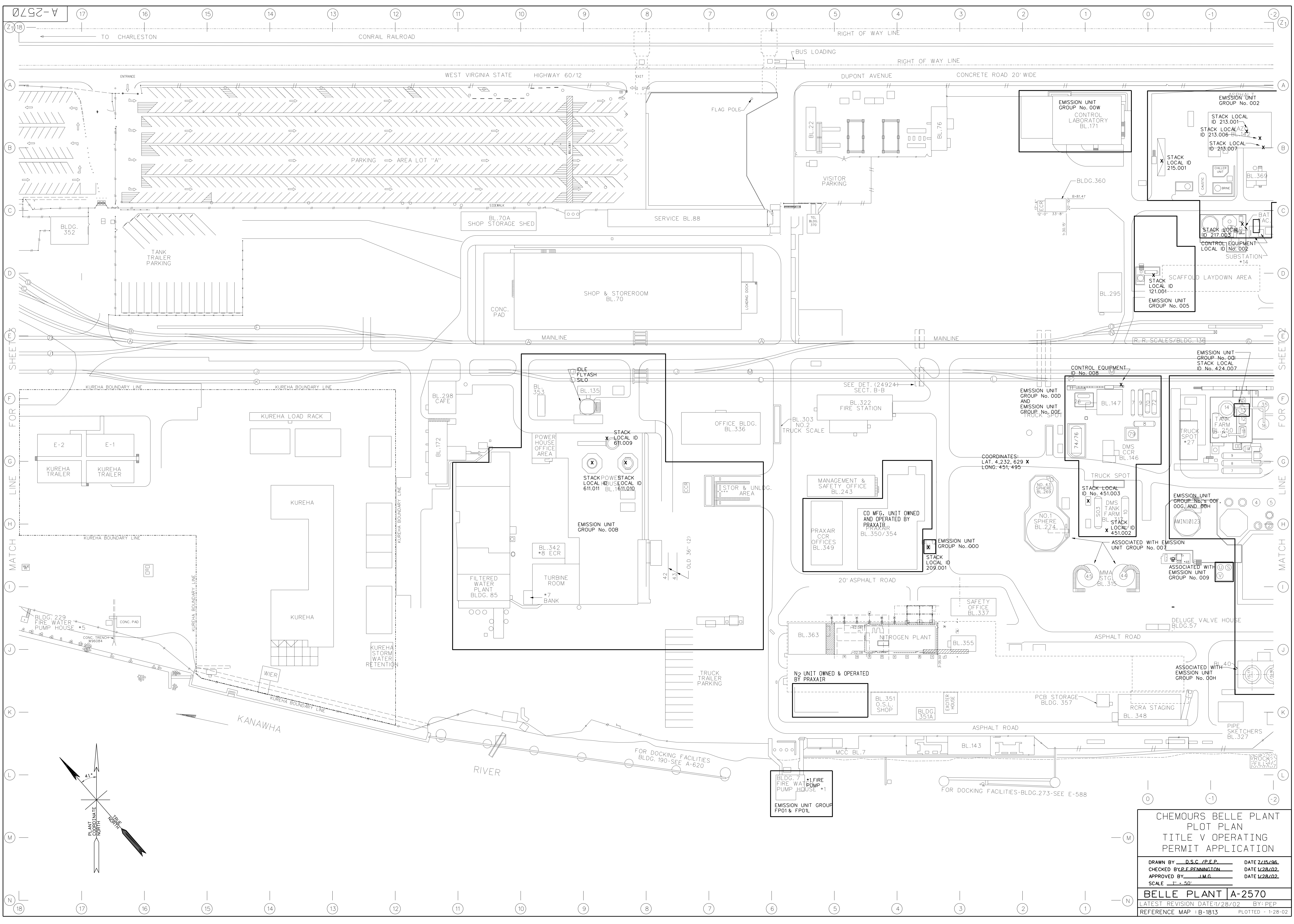
Building

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- Share

901 W Dupont Ave, Belle, WV 25015

Photos





CHEMOURS BELLE PLANT			
PLOT PLAN			
TITLE V OPERATING			
PERMIT APPLICATION			
DRAWN BY	D.S.C./P.E.P.	DATE	7/15/86
CHECKED BY	P.F. PENNINGTON	DATE	1/28/02
APPROVED BY	J.M.C.	DATE	1/28/02
SCALE 1" = 50'			
BELLE PLANT A-2570			
LATEST REVISION DATE 1/28/02		BY: PEP	
REFERENCE MAP: B-1813		PLOTED: 1-18-02	

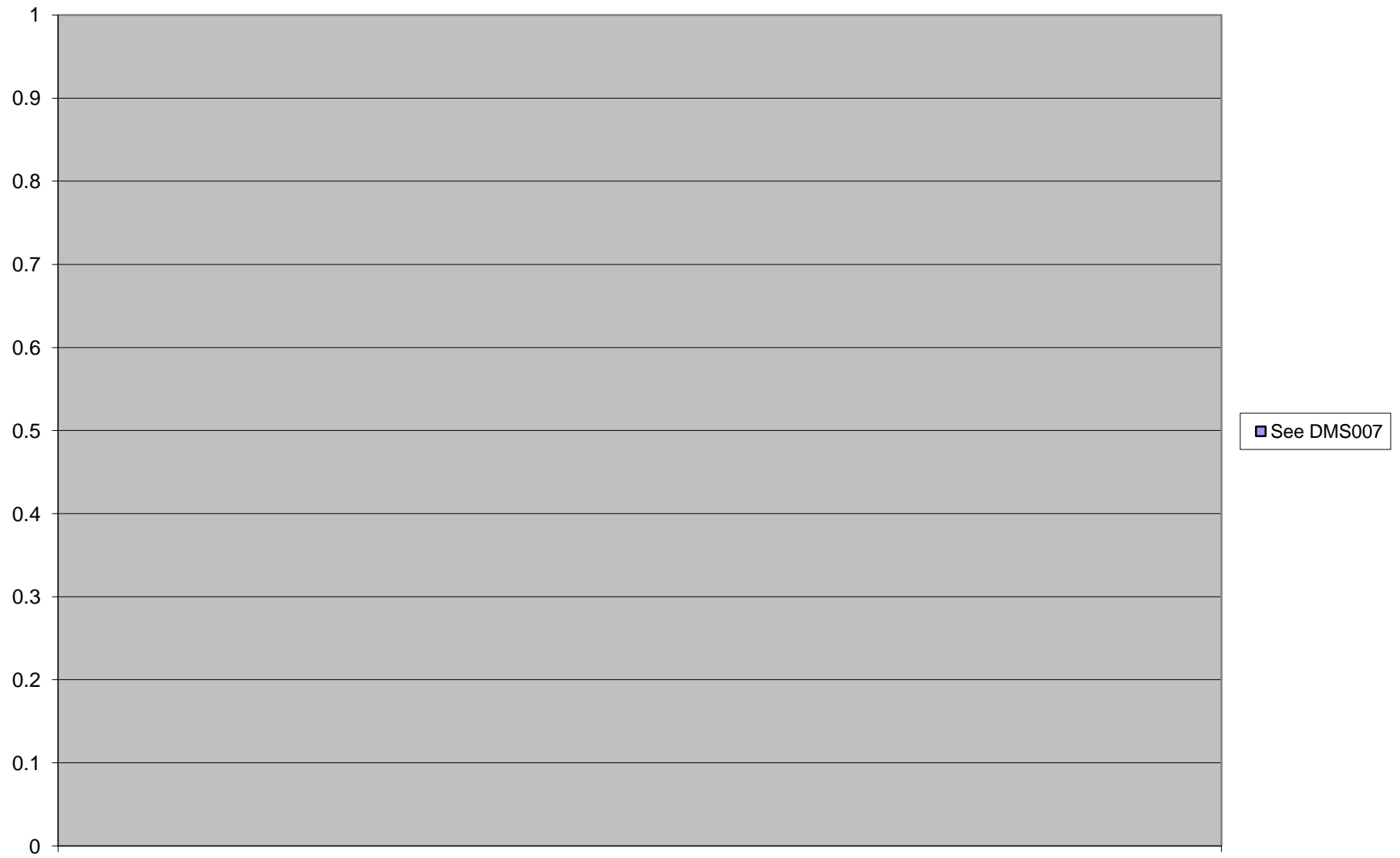
Emission Unit ID	Emission Point ID	Internal Equipment Description	Emission Unit Description	Design Capacity	Year Installed	Control Device	Comments
DME010	451.100		Tank		1940	DMSCD01	
DME020	451.100		Reactor		1999	DMSCD01	
DME021	451.100		Vaporizer		1998	DMSCD01	
DME022	451.100		Heat Exchanger		1989	DMSCD01	
DME023	451.100		Heat Exchanger		1978	DMSCD01	
DME024	451.100		Filter		1960	DMSCD01	
DME025	451.100		Heater		2005	DMSCD01	
DME026	451.100		Heater		2005	DMSCD01	
DME040	451.100		Tank		1969	DMSCD01	
DME041	451.100		Condenser		1996	DMSCD01	
DME042	451.100		Condenser		1996	DMSCD01	
DME030	451.100		Column		1999	DMSCD01	
DME031	451.100		Filter		2001	DMSCD01	
DME032	451.100		Filter		2001	DMSCD01	
DME033	451.100		Heat Transfer Vessel		1963	DMSCD01	
DME034	451.100		Condenser		2001	DMSCD01	
DME035	451.100		Condenser		2001	DMSCD01	
DME036	451.100		Cooler		1975	DMSCD01	
DME037	451.100		Condenser		2009	DMSCD01	
DME050	451.100		Column		1996	DMSCD01	
DME051	451.100		Condenser		2002	DMSCD01	
DME052	451.100		Heat Exchanger		1980	DMSCD01	
DME053	451.100		Reflux Drum		1976	DMSCD01	
DME056	451.100		Cooler		2005	DMSCD01	
DME07	451.100		Tank		1966	DMSCD01	
DME08	451.100		Tank		1974	DMSCD01	
DME09	451.100		Tank		1967	DMSCD01	
DME10	451.100		Tank		1978	DMSCD01	
DME11	451.100		Filter		1986	DMSCD01	
DME12	451.100		Filter		1986	DMSCD01	
DME13	451.100		Product Loading		pre-1966	DMSCD01	
DME14	451.2		Tank		2002	None	
***	209.1	CO Plant	CO Plant	3MM	1987	CO FLARE	
CONTROL DEVICES							
DMSCD01	451.100	DMS Flare	Flare	5400 SCFH	2000		

Emission Unit ID	Emission Point ID	Internal Equipment Description	Emission Unit Description
DMS001	451.002		Tank
DMS002	451.003		Tank
DMS003	451.003		Heat Exchanger
DMS004	451.003		Filter
DMS005			Tank
DMS006			Heat Exchanger
DMS007	451.100		Reactor
DMS008	451.100		Tank
DMS009	451.100		Eductor
DMS010	451.100		Tank
DMS011	451.100		Eductor
DMS012	451.200		Kettle
DMS013	451.200		Tank
DMS014	451.200		Separator
DMS015	451.200		Heat Exchanger
DMS016	451.200		Separator
DMS017	451.200		Vacuum Jet
DMS018	451.200		Condenser
DMS019	451.200		Condenser
DMS020	451.200		Condenser
DMS021	451.100		Tank
DMS022	451.100		Tank
DMS023	451.100		Tank
DMS024	451.100		Tank
DMS025	451.300		Tank
DMS026	451.100		Tank
DMS027	451.100		Filter
DMS028	451.100		Separator
DMS029	451.100		Loading Racks
CONTROL DEVICES			
DMSCD04	451.002	Demister	
DMSCD03	451.002	Scrubber	
	Emergency Back-up and Personnel Protection Only		
DMSCD02		Mist Eliminator	
DMSCD01	451.100	DMS Flare	Flare

Design Capacity	Year Installed	Control Device	Comments
	1978	DMSCD03 DMSCD04	
	1978	None	
	2011	None	
	1981	None	
	1978	None	
	2000	None	
	2000	DMSCD01	
	1978	DMSCD01	
	2000	DMSCD01	
	1989	DMSCD01	
	2000	DMSCD01	Removed
	1978	None	Removed
	1978	None	
	2013	None	Replaced
	1978	None	
	1966	None	
	2000	None	
	2000	None	
	2000	None	
	2000	None	
	2015	DMSCD01	Replaced
	1937	DMSCD01	
	1978	DMSCD01	
	1978	DMSCD01	
	2000	None	
	1983	DMSCD01	
	1975	DMSCD01	
	1983	DMSCD01	
	pre-1966	DMSCD01	
	2017		Replaced
	1983	DMSCD04	
	2020		Replaced
5400 SCFH	2000		

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>		Linde CO Plant (209.001)	
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:	
***	CO Plant	COFLARE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.):			
0			
Manufacturer:	Model Number:	Serial Number:	
	0	0	
Construction Date:	Installation Date:	Modification Date:	
	1987	0	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):			
3MM			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
		0	
<i>Fuel Usage Data</i> (fill out all applicable fields)			
Does this emission unit combust fuel?		If yes, is it?	
x Yes ___ No		___ Indirect Fired x Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
0		0	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Natural Gas		0	0
0		0	0
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	0	0	0
0	0	0	0
<i>Emissions Data</i>			

See DMS007



[illegible]

[illegible]

[illegible]

ATTACHMENT E - Emission Unit Form			
Emission Unit Description		Tank	
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:	
DME10	REDACTED	DMSCD01	
Provide a description of the emission unit (type, method of operation, design parameters, etc.):			
0			
Manufacturer:	Model Number:	Serial Number:	
Chattanooga Boiler Co.	0	0	
Construction Date:	Installation Date:	Modification Date:	
0	1978	0	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons):			
REDACTED			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
3000 gal	26280000 gal	0	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes ___No		If yes, is it?	
		___Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
0		0	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
0		0	0
0		0	0
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
0	0	0	0
0	0	0	0

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	See DMS007	0
Nitrogen Oxides (NO _x)	0	0
Lead (Pb)	0	0
Particulate Matter (PM _{2.5})	0	0
Particulate Matter (PM ₁₀)	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO ₂)	0	0
Volatile Organic Compounds (VOC)	0	0
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See permit R30-03900001

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See permit R30-03900001

Are you in compliance with all applicable requirements for this emission unit?

☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0	5
Nitrogen Oxides (NO _x)	0	0
Lead (Pb)	0	0
Particulate Matter (PM _{2.5})	0	0
Particulate Matter (PM ₁₀)	0	0
Total Particulate Matter (TSP)	0	0
Sulfur Dioxide (SO ₂)	0	0
Volatile Organic Compounds (VOC)	0	0
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
#REF!		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
Applicable Requirements		

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See permit R30-03900001

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See permit R30-03900001

Are you in compliance with all applicable requirements for this emission unit?

☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: COFLARE	List all emission units associated with this control device. Linde CO Plant	
Manufacturer: McGill Industries	Model number: BFT 16 Flare	Installation date:
Type of Air Pollution Control Device:		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Internal Floating Roof</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
CO	100%	98%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). Heat value and velocity of gas.		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Complete ATTACHMENT H If No, Provide justification. This control device is subject to the monitoring requirements of the MON. Emissions from this unit are below defined level for major source.		
Describe the parameters monitored and/or methods used to indicate performance of this control device. Amount of CO sent to flare and number of hours per day CO is sent to the flare.		

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: DMSCD01	List all emission units associated with this control device. DMS007-DMS011, DMS021-DMS024, DMS026-DMS029, DME07-DME056	
Manufacturer: John Zink	Model number:	Installation date: 2000
Type of Air Pollution Control Device: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
Methanol	100%	98%
DME	100%	98%
DMS	100%	98%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). Total Heat Value = 5.5 MMBTU/hour Natural Gas Flow to Flare = 700 SCFH		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Complete ATTACHMENT H If No, Provide justification. This control device is subject to the monitoring requirements of the MON. Emissions from this unit are below defined level for major source.		
Describe the parameters monitored and/or methods used to indicate performance of this control device. Flame presence		

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: DMSCD02	List all emission units associated with this control device. DMS001	
Manufacturer: R-V Industries Inc	Model number:	Installation date: 2020
Type of Air Pollution Control Device:		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Mist Eliminator</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
SO3	100%	98%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Complete ATTACHMENT H If No, Provide justification. This control device is subject to the monitoring requirements of the MON. Emissions from this unit are below defined level for major source.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		

ATTACHMENT G - Air Pollution Control Device Form																	
Control device ID number: DMSCD03		List all emission units associated with this control device. DMS001															
Manufacturer: Alloy Fabricators	Model number:	Installation date: 1983															
Type of Air Pollution Control Device: <div> <input type="checkbox"/> Baghouse/Fabric Filter <input type="checkbox"/> Venturi Scrubber <input type="checkbox"/> Multiclone </div> <div> <input type="checkbox"/> Carbon Bed Adsorber <input checked="" type="checkbox"/> Packed Tower Scrubber <input type="checkbox"/> Single Cyclone </div> <div> <input type="checkbox"/> Carbon Drum(s) <input type="checkbox"/> Other Wet Scrubber <input type="checkbox"/> Cyclone Bank </div> <div> <input type="checkbox"/> Catalytic Incinerator <input type="checkbox"/> Condenser <input type="checkbox"/> Settling Chamber </div> <div> <input type="checkbox"/> Thermal Incinerator <input type="checkbox"/> Flare <input type="checkbox"/> Other (Describe) </div> <div> <input type="checkbox"/> Wet Plate Electrostatic Precipitator <input type="checkbox"/> Dry Plate Electrostatic Precipitator </div>																	
List the pollutants for which this device is intended to control and the capture and control efficiencies. <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Capture Efficiency</th> <th>Control Efficiency</th> </tr> </thead> <tbody> <tr> <td>SO3</td> <td>100%</td> <td>98%</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Pollutant	Capture Efficiency	Control Efficiency	SO3	100%	98%									
Pollutant	Capture Efficiency	Control Efficiency															
SO3	100%	98%															
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). 																	
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Complete ATTACHMENT H If No, Provide justification. This control device is subject to the monitoring requirements of the MON. Emissions from this unit are below defined level for major source.																	
Describe the parameters monitored and/or methods used to indicate performance of this control device. <u>The pressure on the SO3 Storage Tank and Acid Strength in the Acid Tank are monitored to indicate performance of the Scrubber.</u>																	

Formatted Table

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: DMSCD04	List all emission units associated with this control device. DMS001	
Manufacturer: Chemours	Model number:	Installation date: 2017
Type of Air Pollution Control Device:		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Demister</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
SO3	100 %	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Complete ATTACHMENT H If No, Provide justification. This control device is subject to the monitoring requirements of the MON. Emissions from this unit are below defined level for major source.		
Describe the parameters monitored and/or methods used to indicate performance of this control device. Visual emissions conducted on the exit of the Brinks Demister monthly.		

CO Flare Process Description

Carbon monoxide ("CO") is produced by Linde (formerly "Praxair, Inc")

The Praxair operation is covered under a separate air permit. Chemours and Belle Chemical Company (BCC) are the customers for the CO product. CO is supplied to Chemours process areas as raw material feedstock to the Glycolic Acid (GA) unit. CO is supplied to BCC process areas as a raw material feedstock to the Monomethyl Formamide (MMF) and Dimethyl Formamide (DMF) units. When CO is not being charged to either the Chemours or BCC process areas, excess CO is vented to a flare (emission point 209.001).

This CO production unit is covered under two separate DEP air permits. The raw material feeds and production of CO is covered under the R13-891 issued to Praxair (now Linde). The flaring of excess CO is covered under the R13-914 permit for Chemours.

There are three types of scenarios involved in the venting of CO to the flare (see Emission Calculation worksheet).

Scenario 1

The first scenario is the venting at a normal CO production rate with no consumption to the process units (GA, MMF or DMF). It is projected that the maximum occurrence of this scenario would be 24 hours per year. The potential to emit for "uncontrolled" emissions of CO is 9,749 PPH and 117 TPY. The potential to emit for "controlled" emissions of CO is 234 PPH and 0.12 TPY.

Scenario 2

The second scenario is when minimum CO is produced with only one process unit consuming CO. This scenario would be only one process unit (GA, MMF or DMF) is operating. It is projected that the maximum occurrence of this scenario would be 8592 hours per year. The potential to emit for "uncontrolled" emissions of CO is 975 PPH and 4,188 TPY. The potential to emit for "controlled" emissions of CO is 1.0 PPH and 4.19 TPY.

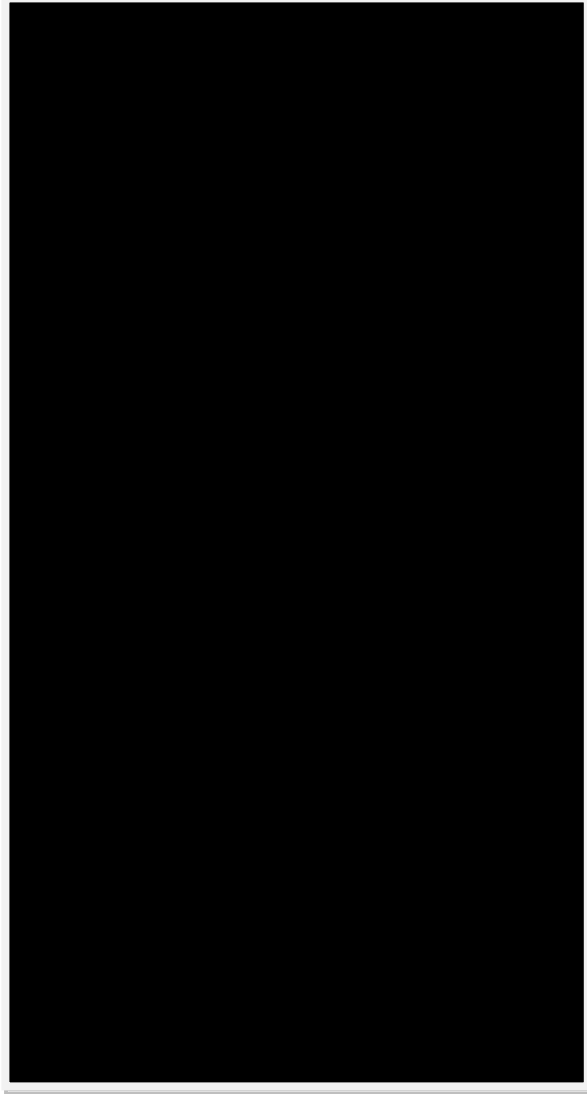
Scenario 3

The third scenario is when two process units are consuming CO at normal operating rates. This third scenario would either involve GA and MMF or GA and DMF (MMF and DMF do not run simultaneously). It is projected that the maximum occurrence of this scenario would be 5,256 hours per year. The potential to emit for "uncontrolled" emissions of CO is 1,170 PPH and 3,075 TPY. The potential to emit for "controlled" emissions of CO is 1.2 PPH and 3.07 TPY.

Chemours Belle Plant

Process Flow Diagram – Carbon Monoxide Flare Stack

Linde Process Equipment – Permit No. R13-891



Process Vent
209.001

Excess CO Vented to Flare

**Glycolic
Flow Meter**
FE 2014

Process Vent
209.001

Excess CO Vented to Flare

Chemours Process Equipment- Permit No. R13- 914





Flare

Emission
Point

209.001 -E

Raw Material Process Feed
CO to Chemours
Production Unit Glycolic Acid
(formerly Hydroxyacetic Acid – HAA)

CO To Chemours Production Units 
CO Emission Flow to Flare 

Maximum Potential to Emit Emissions

The maximum potential to emit (PTE) for emissions involve two different scenarios (Scenario 1 and Scenario 2). The maximum PTE for “uncontrolled” emissions is 9,749 PPH under operating Scenario 1 and 4,188 TPY under operating Scenario 2. The maximum PTE for “controlled” emissions is 9.8 PPH under operating Scenario 1 and 4.24 TPY under operating Scenario 2. (The “controlled” maximum potential emissions include emissions from the combustion of natural gas.)

CHEMOURS BELLE PLANT
REDACTED

DME Process Description

1 of 5

Dimethylether (DME) is manufactured by Chemours at the Belle, WV site and is sold into the aerosol market. DME is used as an intermediate for the manufacture of Dimethylsulfate. About 1/3 of DME produced is used at the adjacent DMS process. DME is shipped under its own vapor pressure (50-100 psig) as a liquefied flammable gas in thirty-three thousand gallon tank cars and in four thousand gallon tank trucks to aerosol customers.

The DME process is divided into three distinct operations. They are Synthesis, Refining, and Storage and Handling.

1.1 SYNTHESIS

[illegible]

CHEMOURS BELLE PLANT
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DME Process Description

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CHEMOURS BELLE PLANT
REDACTED

DME Process Description

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1.1 SYNTHESIS (Continued)

[REDACTED]

1.2 REFINING

[REDACTED]

[REDACTED]

[REDACTED]

1.3 STORAGE AND HANDLING

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

CHEMOURS BELLE PLANT
REDACTED

DME Process Description

4 of 5

1.3 STORAGE AND HANDLING (Continued)

[REDACTED]

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CHEMOURS BELLE PLANT
REDACTED

DME Process Description

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1.4 VENT SYSTEM

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



Belle Plant REDACTED

DME Process Flow Diagram
Procedure Number: DME-130

Copy No.: 1
Revision No.: 0
Page 1 of 1

Authorized By: Carl Burgazli (Signature on File)
Title: (DME/DMS Area Manager)

Authorized Date: 11/18/2020
Next Review Date: 11/18/2023

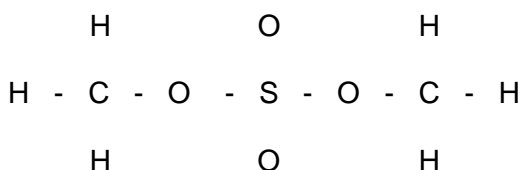


SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION**1.1 OVERVIEW****Products**

Dimethyl Sulfate (DMS) is manufactured by Chemours at the Belle, West Virginia site only.

The chemical composition is $(\text{CH}_3\text{O})_2 \text{SO}_2$.

The chemical structure looks like this:



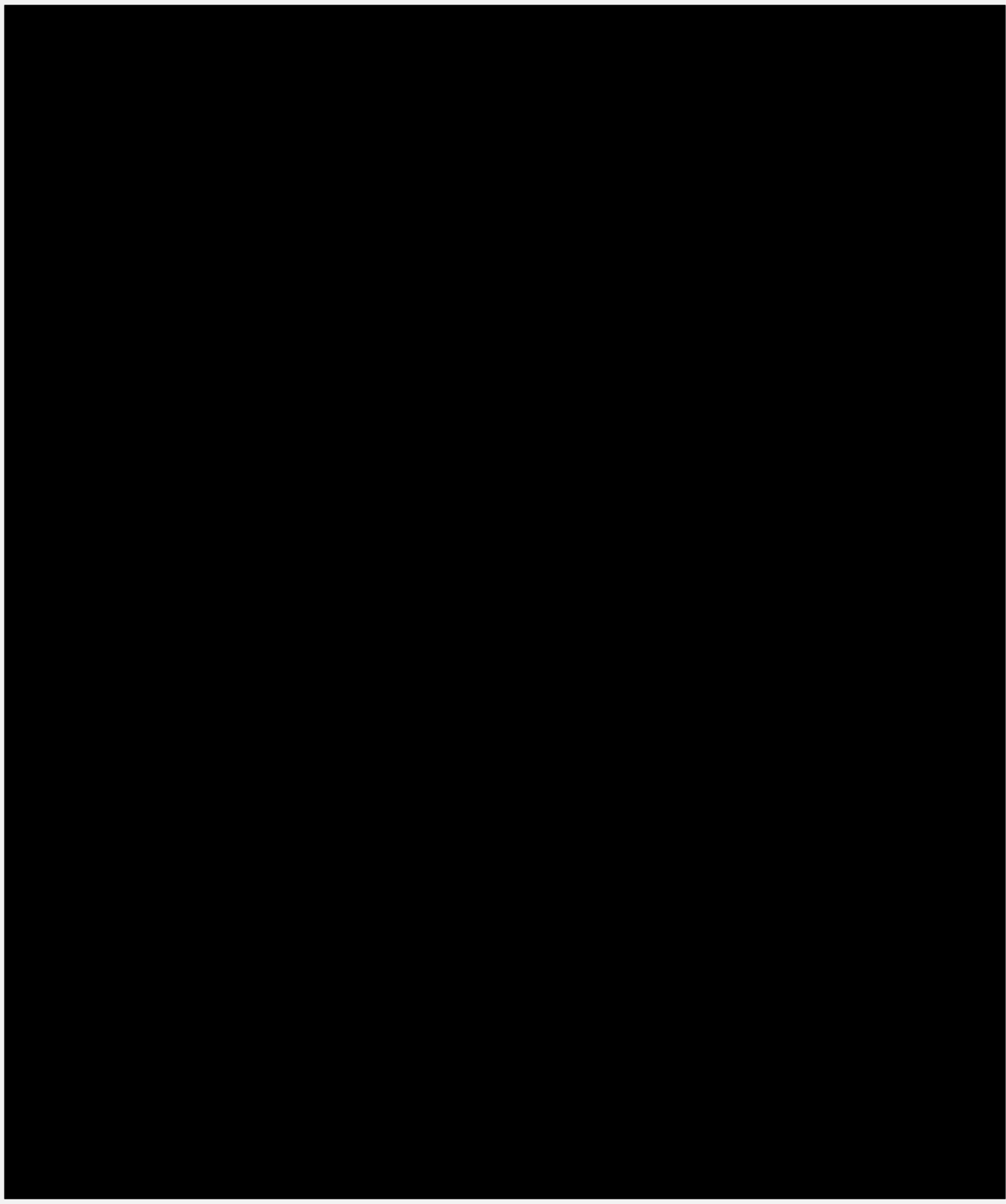
Dimethyl Sulfate is a highly active methylating agent and is used in the manufacture of products for various industries. These include vanilla for the food industry, insecticides, pharmaceuticals, used as an intermediate for caffeine and codeine, dye intermediates, photographic chemicals, finishes and a variety of organic chemicals.

Dimethyl Sulfate is normally a clear, water-white liquid with a high boiling point and a specific gravity heavier than water. This chemical is toxic and has no characteristic odor warning property. Both the liquid and vapor cause severe burns to human tissue.

1.2 SO₃ STORAGE

SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION (Continued)

1.2 SO₃ STORAGE (Continued)

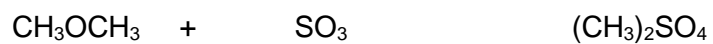


SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION (Continued)1.2 SO₃ STORAGE (Continued)

[REDACTED]

[REDACTED]

1.3 DMS CRUDE

Dimethyl Ether + Sulfur Trioxide \longleftrightarrow Dimethyl Sulfate

[REDACTED]

[REDACTED]

[REDACTED]

SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION (Continued)

1.3 DMS CRUDE (Continued)

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION (Continued)

1.4 DMS REFINING

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION (Continued)

1.5 FLARE SYSTEM

[REDACTED]

[REDACTED]

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SECTION 1. DIMETHYL SULFATE PROCESS DESCRIPTION (Continued)

1.6 DMS STORAGE FACILITIES

There are 2 DMS storage tanks (74 and 76) and 2 make tanks (70 and 72). Material can be loaded from all 4 tanks. All of the tanks have submerged pump use for transfers. They all vent to 79 tank then to the flare. They all have rupture disks that blow to 79 tank. 79 tank has a relief valve that blows to atmosphere.

<u>Tank</u>	<u>Capacity</u>
#70	11690 Gallons (129,668 lbs.)
#72	17700 Gallons (196,332 lbs.)
#74	33500 Gallons (371,589 lbs.)
#76	33500 Gallons (371,589 lbs.)



Belle Plant - REDACTED

DMS Process Flow Diagram
Procedure Number: DMS-213

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Title: (DME/DMS Area Manager)

Authorized Date: 11/18/2020
Next Review Date: 11/18/2023

